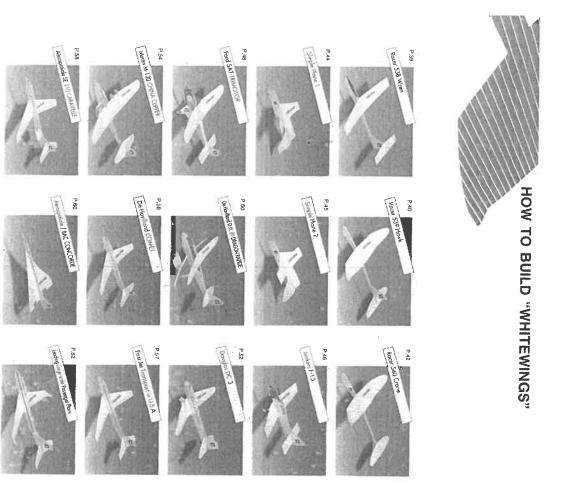
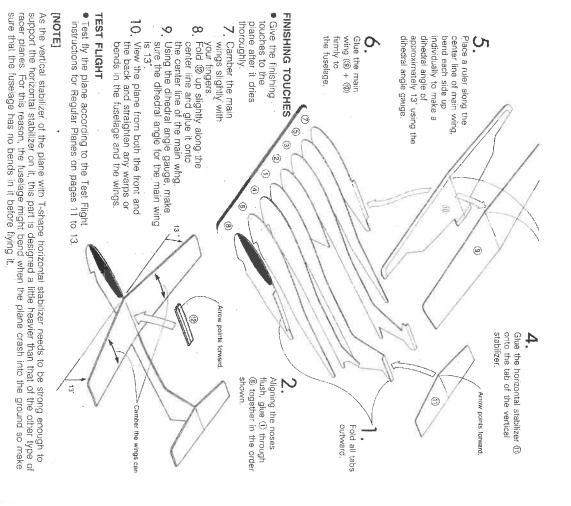


ASSEMBLY INSTRUCTIONS
FLIGHT INSTRUCTIONS
GUIDELINE FOR WHITEWINGS COMPETITION
INTRODUCTION TO PAPER PLANE DESIGN
HOW TO BUILD "WHITEWINGS"

HISTORY OF PASSENGER PLANE SERIES





GLUING INSTRUCTIONSGlue the parts together in the order indicated.

Fold all tabs outward. 3. Give the horizontal stabilizer ® to the fuselage. **@** Assemble the main wing following the assembly instructions for the MOST wings on page 63. **6** 0 (b) 0 (0) Aligning the noses flush, glue (1) through (6) together in the order shown. Θ Glue the main wing firmly Arrow points forward. -€ @ to the fuselage. <u>@</u> (9) C

and (0). Fold tabs on both ends of the main wing to form a 30° dihedral angle using the gauge and then camber them as well. Apply glue to the top surface of the folded tabs of the main wing. Attach wing tips (® and (?) 6. Camber both wing tips ® respectively. Once again, check that the dihedral (2) 9 Camber the wing tips carefully. Dot towards the front. Dot towards the front,

FINISHING TOUCHES

angle at the tip of the wing is 30°, using the gauge.

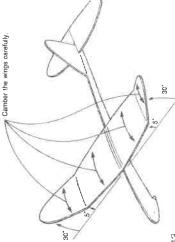
- Give the finishing touches to the plane after it dries thoroughly.
- 8. Using the dihedral angle gauge make sure the dihedral angle for the main wing is 5° and for the wing tips is 30°.

 9. Camber the main wings carefully with

 - your fingers. View the plane from both the front and the back and straighten any warps or bends in the fuselage and the wings. 0

TEST FLIGHT

• Test fly the plane according to the Test Flight instructions for Regular Planes on page 11 to 13.

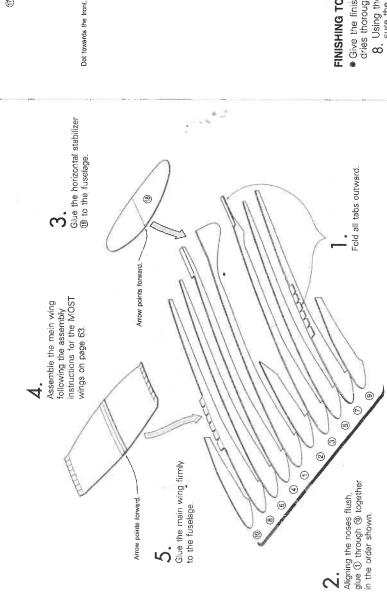


of the main wing. Attach wing tips (® and (®) respectively. Once again, check that the dihedral angle at the tip of the wing is 30°, using the gauge.

GLUING INSTRUCTIONSGlue the parts together in the order indicated.

Camber both wing tips (6) and (9). Fold tabs on both ends of the main wing to form a 30' dihedral angle using the gauge and then camber them as well.

Camber the wing tips carefully,



Apply glue to the top surface of the folded tabs

9

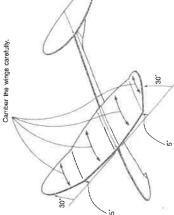
Dot towards the front.

FINISHING TOUCHES

- Give the finishing touches to the plane after it dries thoroughly.
- 8. Using the dihedral angle gauge make sure the dihedral angle for the main wing is 5 and for the wing tips is 30.
 9. Cambor the main wings carefully with your fingers.
 10. View the plane from both the front and the back and straighten any warps or bends in the fuselage and the wings.

TEST FLIGHT

Test fly the plane according to the Test Flight instructions for Regular Planes on page 11 to 13.



Fold ① outward along this line.

part of (i) and fold it inward along the center line. Turn up the folded smaller.



Fold both tabs on ① outside as shown. ന



scotch tape.

FINISHING TOUCHES

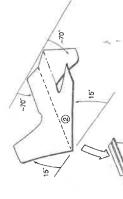
- Before the glue dries, fix ① and ② with your fingers carefully to ensure the center lines of both ① and ② are on the 0
- Camber the main wing slightly with your fingers. 0
- 11. Parage is a specific and the properside of the main wing and make sure that the dihedral angle for the main wing is 15. 2. Bend the trailing edge of the horizontal stabilizer 0.5 1mm (1/60 1/25") up.
- make sure that the dihedral angle is -70° vew the plane from the front and the back and straighten any warps or bends in the fuselage and the wings. underside of the horizontal stabilizer Placing the angle gauge at the 13. 4

TEST FLIGHT

Test fly the plane according to the Test Flight instructions for Regular Planes on page 11 to 13.



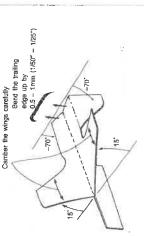
Placing a ruler along the center line on ② and bend each side up to make a dihedral angle of 15. (Use the angle gauge.)



stabilizer along the long dash and dotted line 70 downward. (Use the dihedral angle gauge.) Bend each side of the horizontal

ω.

Spread glue on the tabs on (1) and attach them to the underside of the front end of (2)



Fold 1 outward along this line.

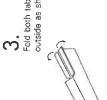
Completion of the fuselage

part of (1) and fold it inward Turn up the folded smaller

Placing a ruler along the center line (2) and bend each side up to make a dihedral angle of 15°. (Use the angle

gauge.)

Fold both tabs on ① outside as shown.



Fold the protruding part over the another edge, then

along the center line.

attach them with glue or

scotch tape

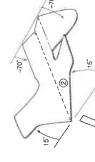
FINISHING TOUCHES

- your fingers carefully to ensure the center lines of both (1) and (2) are on the 9. Before the glue dries, fix (1) and (2) with straight.
 - Camber the main wing slightly with your fingers. 0
- 11 Place the angle gauge at the upperside of the main wing and make sure that the dihedral angle for the main wing is 15.
 - Bend the tips of the horizontal stabilizer 0.5 - 1mm (1/50 - 1/25") up. 33
- make sure that the dihedral angle is -70°. View the plane from the front and the back and straighten, any warps or bends Placing the angle gauge at the underside of the horizontal stabilizer 4

TEST FLIGHT

in the fuselage and the wings

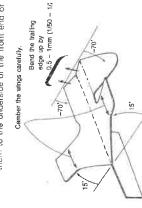
Test fly the plane according to the test flight instructions for Regular Planes on pages 11 to 13.



Bend each side of the horizontal stabilizer along the long dash an dotted line 70 downward. (Use t

dihedral angle gauge.)

Spread glue on the tabs on (1) and attach them to the underside of the front end of $\dot{\infty}$



44

features an open design for pilots to gain headwinds in their favor. The projecting horn on the plane nose is the exhaust pipe for the engine.

GLUING INSTRUCTIONS

Glue the parts together in the order indicated.

Aligning the noses flush, glue (1) through (1) together in the order shown. 3

Cut out the slit on part (i) into which the horizontal stabilizer will be inserted.

(m) 6 (3) 4

> (6) 9 9

(2) gauge, fold landing gear parts ®, ®, and ® Using the landing gear

(9) glue (7) to the underside of (6) aligning their front edges. the figures. Then, glue (6) to the underside of (5) and respectively as shown in

(P)

the landing gear (® + ® + ® + ®) and that of the main wing, glue the landing gear main wing. Make sure that the center line of the main wing and the cut of the Aligning the front edge of to the underside of the

Herering to INU1EI on page bu, araw the center line on the underside of the main wing ($(\emptyset + (\emptyset))$).

horizontal stabilizer, aligning its center line and that of the fuselage Find the Insert the horizontal stabilizer (into the slit of the vertical stabilizer. Then, apply give on the tabs to fix the

center line of the horizontal stabilizer using the center guidelines.

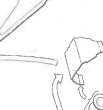
(

Fold all tabs outward.

Arrows point forward.

6 6 (2)

(2)

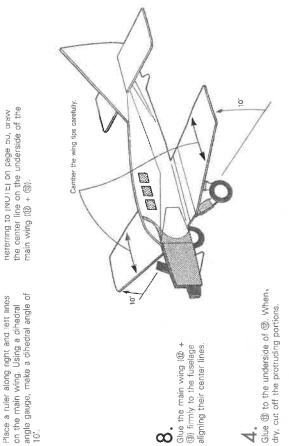


E

that each printed side can be seen.) Then, as shown in the figure, glue the Glue together ® and ®, and so and (2) to assemble wheels. (Make sure wheels to the landing gear

respectively, aligning the center of the tab with the center of the wheels.

landing gear meet each



FINISHING TOUCHES

• Give the finishing touches to the plane after it dries thoroughly.

12. Camber the wing tips which have a dihedral angle carefully with your fingers.

Placing the gear gauge at the underside underside of the main wing, check the dihedral angle for 10°. 7

View the plane from both the front and of the gear, make sure that the proper the back and straighten any warps or bends in the fuselage and wings. degrees are set. 15.

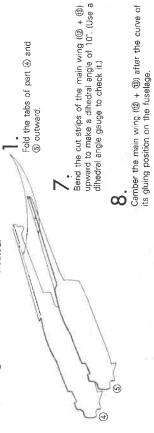
TEST FLIGHT

Test fly the plane according to the Test Flight instructions for Regular Planes on pages 11 to 13.

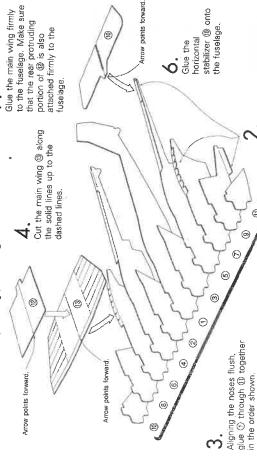
by professor Junkers. The 5AT, a larger plane with an engine utilizing more horse power, made its maiden voyage in 1928. More than 100 of the planes were produced and these Ford 5AT TRIMOTOR aircraft are still being used today in charter sightseeing service in the USA.

GLUING INSTRUCTIONS

Glue the parts together in the order indicated.



5. Glue ® to the upperside of ® aligning their center lines. When dry, cut off the protruding portion of ®



0

to the fuselage. Make sure



FINISHING TOUCHES

(1)+(B)

• Give the finishing touches to the plane after it dries thoroughly.

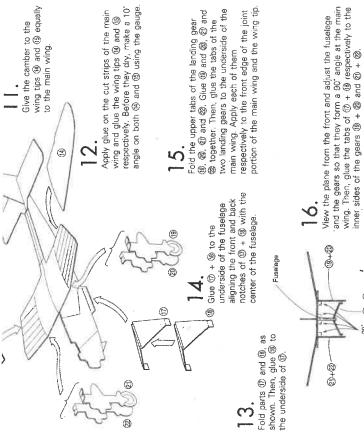
View the plane from the front and the back and straighten, any warps or bends in the fuselage and wings.

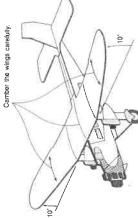


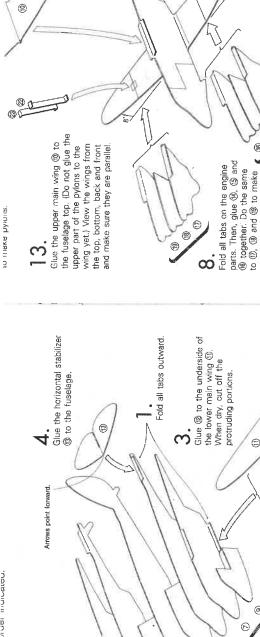
Fold all tabs outward.

6

Test fly the plane according to the Test Flight instructions for Regular Planes on pages 11 to 13.







@(<u>)</u>

angle along this line. Make the dihedral Installation line for the engine.

(Attach them leaning slightly toward the front.)

אומל חוי לשווים ווו פום טומפו וווטוטמנסט.

Placing a ruler along the center line of the upper main wing $\ensuremath{\mathfrak{D}}$, make a dihedral angle.

Arrows point forward.

(2)

Glue the lower main wing (① + ②) firmly to the fuselage aligning their

center lines.

Placing a ruler along the installation lines on the main wing, make a dihedral angle of 8" for both sides

S

of the main wing. (Use the dihedral angle gauge.)

(2)

9 (2)

engines.

0 (9)

Aligning the noses flush, glue ① through @ together in the order shown.

<u>(10)</u>

0 (0) 9 @ ⊚ **√**

12.

Attach those engines to the underside of the lower main wing aligning with the installation lines.

Dihedral angle

FINISHING TOUCHES

- Give the finishing touches to the plane after it dries thoroughly.
 - 15. Camber both the upper and the lower main wings slightly with your fingers.

16. Using the dihedral angle gauge, make sure the dihedral angle for the lower main wing is 8.

17. View the plane from both the front and the back and straighten any warps or bends in the fuselage and the wings.

TEST FLIGHT

• Test fly the plane according to the Test Flight instructions for Regular Planes on pages 11 to 13.

14.

fuselage and the pylons are parallel. Then, give the top part of the pylons to the underside of the upper main wing. View the plane from the front to check that the

20

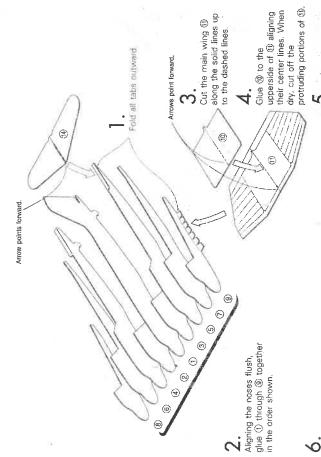
Make pinholes at both ends of the main wing. Turn the main wing over, Link the pinholes together with a ruler and draw a cener line on the unprinted side of the main wing.

[NOTE]

high quality and economical efficiency. An unprecedented production of more than 10,000 planes were made for civilian and military transport use.

GLUING INSTRUCTIONS

Glue the parts together in the order indicated.



page 50,

upward to make a dihedral angle of 10". (Use the

dihedral angle gauge to check it.)

Bend the cut strips of the main wing (@ + (1))

Camber the main wing (@ + @) after the curve of its gluing position under the fuselage.

Glue the main wing firmly to the fuselage aligning their center lines.

 ∞

Referring to [NOTE] on underside of the main draw the center line on the wing (@ + @);

position for the main wing under the fuselage, adjust the camber of the main wing evenly from the root to both edges. Check that the dihedral angle of the cut strips of the main wing is 10°. Examining carefully the curve of the gluing 0

left and right engines respectively onto the front notches of the joint portion of the main wing and the wing tips. Then, ettach both engines to the main wing with glue. Slide the assembled engine onto the main wing. Put the

Fold all tabs of engine parts

5

0

(B) (B) (B)

(6) through (2).

9 (e) (e)

Camber the wing tips (a) and (a) equally to the main wing. Refer to Figure 1 on page 10. It is very important to camber the entire main from the wing root to both edges. (The dashed line in the figure 1 on page 10 shows an inappropriate camber which creates different angles of settings between the wing root and both edges.) wing evenly from the root to both edges so that it generates the equal angle of setting

• Give the finishing touches to the plane after it

FINISHING TOUCHES dries thoroughly.

fingers. As this plane has a sweptback wing, the angle of setting tends to be upward at the wing edges. However, it is Camber the main wing carefully with your wrong. (Refer to Figure 1 on page 10.) Adjust the camber to place an equal angle of setting from the wing root to wing edges

the wing tips (® and (® respectively. Before they dry, make a 10° angle on both (® and (® using the gauge. Additionally, adjust the angle of setting evenly from the wing root to both edges. (Refer to Figure 1 on page 10.)

Apply glue on the cut strips of the main wing and glue

Using the dihedral angle gauge, check that the dihedral angle of the wings tips 9 16.

View the plane from both the front and the back and straighten any warps or bends in the fuselage and the wing.

TEST FLIGHT

Test fly the plane according to the Test Flight instructions for Regular Planes on pages 11 to 13. When test flying your plane, observe its flight carefully. In the case that the plane tends to circle slightly, remember if it turns to the right or to the left. When you want this plane to fly high, launch the plane tilting it to the direction the plane circled so that it climbs up higher for an excellent flight.

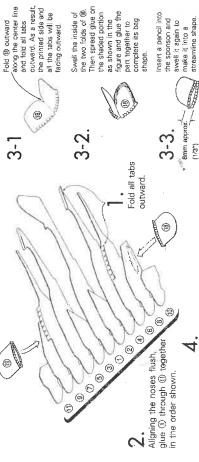
52

and "PHILLIPINE CLIPPER" began scheduled service across the Pacific Ocean in 1936. This transpacific service proved that a large flying boat with multi-engines were well suited in those days to the routes crossing the Pacific Ocean. ന

GLUING INSTRUCTIONS

Glue the parts together in the order indicated

Assemble the sponson.



Using the engine installation lines and cuts on the main

1

the gluing position for the main wing on the fuselage, camber the main wing (13)

+ (4) evenly up to both

angle for the folded edges. Make sure that the dihedral

tabs are 10°

According to the curve of

Camber the wing tips carefully Dot lowards the front.

four engines to wing as a guide, glue the

the main wing.

(2)

Dot lowards the front,

Camber both wing tips (6) and (6)

?

equally to the main wing.

Glue the sponson ® to the printed box on the left side of the fuselage. Glue the sponson ® to the printed box on the right side of the fuselage.

3-4 Assemble part ® in Fuselage

Cut part @ along the solid lines up to the dashed

9

Glue (3) to the upperside of (4). When dry, cut off Arrows point forward. the protruding portions.

Placing a ruler along the dashed line on both edges of the main wing ($(\mathfrak{G}+\mathfrak{G})$), bend the strips upward to make a dihedral angle of 10° 0

Camber the main wing ($(\oplus + (\oplus))$ after the curve of its gluing position on the fuselage.

MA

577

(B)+(B)

Glue the main wing firmly to the fuselage.

Apply glue to the top surface of the folded tabs of the main wing and attach wing tips ® and ® respectively. Before it dries, adjust the dihedral angles of ® and ® to 10'. (Use the dihedral angle gauge.)

Camber the wing tips carefully

FINISHING TOUCHES

the front. Before the glue dries thoroughly, fix the sponsons (® and (®) to ensure that they

(2)

are glued horizontally.

View the fuselage from

é

- Give the finishing touches to the plane after it dries thoroughly
 - 8 Adjust the camber of both the main wing and the wing tips carefully with your fingers.
- 19. Using the dihedral angle gauge, check again that the dihedral angle of the main

Arrow points forward

(2)

WILLIAM STATE

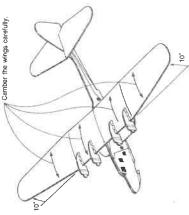
(4)

wing is 10°. View the plane from both the front and the back and straighten any warps or bends in the fuselage and the wings. 20.

TEST FLIGHT

8. Glue the horizontal stabilizer ® to the fuselage.

Test fly the plane according to the Test Flight instructions for Regular Planes on pages 11 to 13.



a large-scaled investigation, it was revealed that the accidents were caused by a fatigue fracture of the pressurized cabin. COMET 4 was produced with a built-in countermeasure to prevent fatigue fracture of However, accidents occurred two years later when planes experienced in-flight disintegration twice. After the pressurized cabin. This led to the improved design, stronger construction and the testing practice for all transport planes with pressurized cabins.

GLUING INSTRUCTIONS

Glue the parts together in the order indicated,

make a dihedral angle of approximately 7 on the horizontal stabilizer @ and attach it to the Using the dihedral angle gauge,

fuselage

Glue (a) to the underside of (a). When dry cut off the Fold all tabs outward. protruding portions. (2) (9) 4 make a dihedral angle of approximately 10° (0) center line of the main wing (@ + @) Θ

(m)

Placing a ruler along the

6

0

Aligning the noses flush, glue (1) through (2)

together in the

order shown.

Draw the center line on the

page 50.)

underside of the main wing (® + ®). (Refer to [NOTE] on

@

Arrows point forward.

Glue the main wing (® + @) firmly to the fuselage aligning their center lines. Give the finishing touches to the plane after it

dries thoroughly.

∞. 6

FINISHING TOUCHES

Camber the main wing slightly with your Place the dihedral angle gauge at the

Camber the wings carefully. 6



underside of the main wing and make sure the dihedral angle for the main wing

Place the dihedral angle gauge at the then make sure the dihedral angle for

ģ

0

upperside of the horizontal stabilizer

View the plane from the front and the back and straighten any warps or bends in the fuselage and the wings. the horizontal stabilizer is

TEST FLIGHT

Test fly the plane according to the Test Flight instructions for Regular Planes on page 11 to 13.

the main wing and suppress of wing flutter. Based on this technology, Boeing developed the jet tanker KC-135 and furthermore put the first passenger jet, the Boeing 707, in practical use in the U.S.A. (First flight in 1954) This passenger jet, compared to planes with reciprocating engines, resulted in flights at twice the speed and payload capacity. That is, almost four times in transport effectiveness.

GLUING INSTRUCTIONS

Glue the parts together in the order indicated.

Using the dihedral angle gauge, make a dihedral angle of 7'on the stabilizer @. Then glue it to the fuselage.

> Aligning the noses flush, glue (1) through (2) together in the order shown.

Placing a ruler along the wing (@ + @), make a center line of the main dihedral angle of approximately 10".

<u>@</u> **6** 0

4 (N) Θ Glue the main wing (® + ®) firmly to the

6 fuselage aligning the center line of the main wing with that of the fuselage.

Glue (a) to the underside of (a). When dry, cut off the

3

Fold all tabs outward. protruding portions.

@

Arrows point forward.

6

Draw the center line on the underside of the main wing (@ + @). (Refer to [NOTE] on page 50.)

Give the finishing touches to the plane after it dries thoroughly

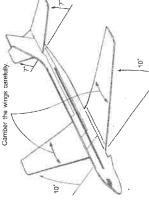
FINISHING TOUCHES

- Camber the main wings slightly with your fingers. ထ
- sure the dihedral angle for the main wing Place the dihedral angle gauge at the underside of the main wing and make o.
- Placing the dihedral angle gauge at the upperside of the horizontal stabilizer make sure the dihedral angle for the horizontal stabilizer is 7 0
- View the plane from the front and the back and straighten any warps or bends in the fuselage and the wings.

TEST FLIGHT

• Test fly the plane according to the Test Flight instructions for Regular Planes on pages 11 to 13.

10.

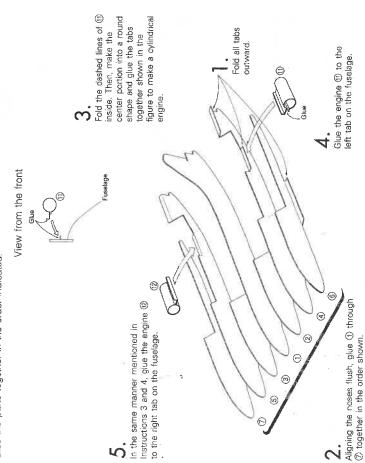


26

coming from the CARAVELLE or the engine pod with pylons on the front edges of the main wing that were used in Boeing B-47 and 707.

GLUING INSTRUCTIONS

Glue the parts together in the order indicated.



(®) to the tab of the fuselage aligning their front edges.

7

Giue ®) to the underside of
(®). When dry, cut off the protruding portions.

8

Referring to on page 50, draw the center line on the underside of the main wing (® + (®)).

(B) Place a ruler along the center line on the underside of the main wing firmly to the fuselage aligning make a dihedral angle of 10:

(B) Place a ruler along the center line on the underside of the main wing tirmly to the fuselage aligning their center lines.

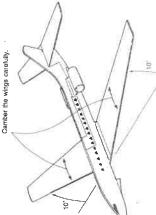
FINISHING TOUCHES

- Give the finishing touches to the plane after it dries thoroughly.
 - 11. Camber the main wing slightly with your fingers.

 12. Placing the dihedral angle gauge on the underside of the main wing, make sure the dihedral angle for the main wing is
- 13. View the plane from the front and the back and straighten any warps or bends in the fuselage and wings.

TEST FLIGHT

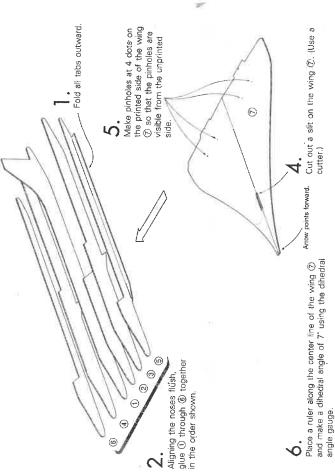
Test fly the plane according to Test Flight instructions for Regular Planes on pages 11 to 13.



produced. The CONCORDE service by British Airway and Air France have continued without accident, and carrying as many as 144 passengers.

GLUING INSTRUCTIONS

Glue the parts together in the order indicated.



Draw the center line on the unprinted side of the wing $\ensuremath{\mathfrak{D}}.$ (Refer to on page 50.)

Spread glue on the tabs on the fuselage: Then, glue the wing (2) to the underside of the fuselage in inserting the hook for the cataput into the slit. Make sure to align the center line of the wing with that of the fuselage.

• Give the finishing touches to the plane after it dries thoroughly. FINISHING TOUCHES

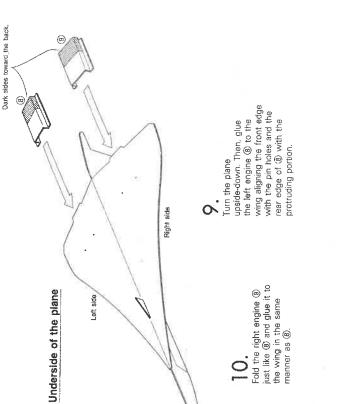
11. Place the dihedral angle gauge at the underside of the wing and make sure the dihedral angle of the wings. 7.

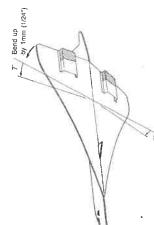
12. Bend both trailing edges of the wing up by approximately 1mm (1/24"). Do not forget this or the plane won't fly.

View the plane from both the front and the back and straighten any warps or bends in the fuselage and the wing. 33.

TEST FLIGHT

Test fly the plane according to the Test Flight instructions for Delta Wing Planes on page 13.





latest model 747-400, some improvements were made. The most conspicuous change in appearance is the winglet at the edge of the wing that extends flight range. Instead of mechanical indicators, in addition, the improvement of computors and CRT was introduced in the cockpit to operate the plane more economically with 2 pilots.

GLUING INSTRUCTIONS

Glue the parts together in the order indicated.

the horizontal stabilizer (@ and make a Place a ruler along the center line of dihedral angle of 7". Then, glue it

firmly to the fuselage.

(2)

Glue (9) to the underside of (8). When dry, cut off the ر. د

protruding portions,

Referring to on page 50, draw a center line on the

Fold all tabs

outward.

unprinted side of the main Place a ruter along the center line of the main wing (®) wing (@ + @) O Arrows point forward.

(9), and make a dihedral angle of Additionally, fold angle gauge.

(0)

6 (9)

<u>(10)</u>

(2) ✐

Aligning the noses flush, glue ① through ② together in the order shown.

6

Give the finishing touches to the plane after it

dries thoroughly.

o.

FINISHING TOUCHES

8. Camber the main wing slightly with your Placing the dihedral angle gauge at the underside of the main wing, make sure the dihedral angle of the main wing is

10 using the dihedral main wing (winglets) the gauge to check both edges of the them to 65°, Use upward and raise that it is 65°

Glue the main wing to the

fuselage aligning their

center lines.

Place the gauge at the edges of the main wing and check that the dihedral angle of the winglets are 65° against the

0

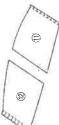
main wing.
Placing the dihedral angle gauge at the upperside of the horizontal stabilizer.

make sure that the dihedral angle is 7°

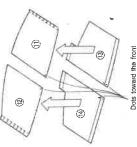
Camber the main wing carefully

wing. Because the shape of the central

This curve is called camber



Glue parts @ and @ to the underside of parts @ and @ respectively. When dry, cut off the protruding portions.



Glue,

both sides. Then curve it carefully with your fingers to fit the curved fuselage top where the main wings are to be attached.



Placing the dihedra angle gauge on the main wing check that the dihedral angle is 5° Folded stands 1-5

Putting folded stands under the main wing will be conducive to fast and thorough drying. ∞

View the plane from the front and the back and straighten any warps or bends in the fuselage and wings.

72

TEST FLIGHT

Test fly the plane according to the Test Flight instruction for Regular Planes on pages 11 to 13.

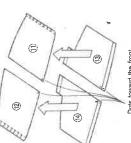
part of the wing resembles a so-called saddle shaped surface in math, I call this type of wing a MOST (Modified Saddle Type) wing. It is constructed as follows.

Cut parts (1) and (2) along the solid lines up to the dashed lines. Then placing a ruler along the dashed line, bend the resulting strips slightly upward.

Apply glue on half of the underside of (a) and glue onto (a) + (b). (The arrow should point toward the dot.)

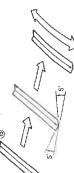


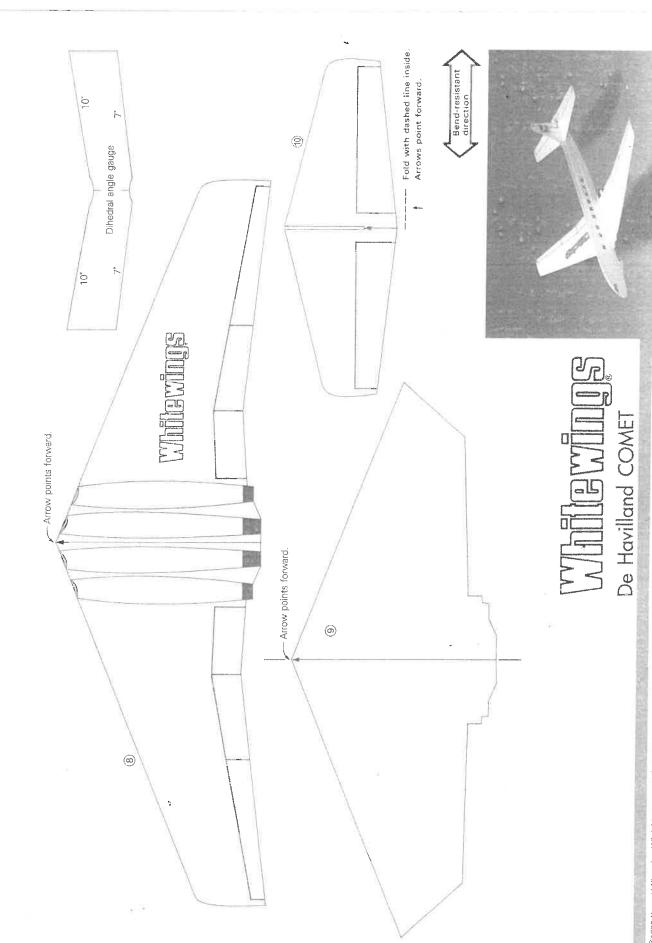
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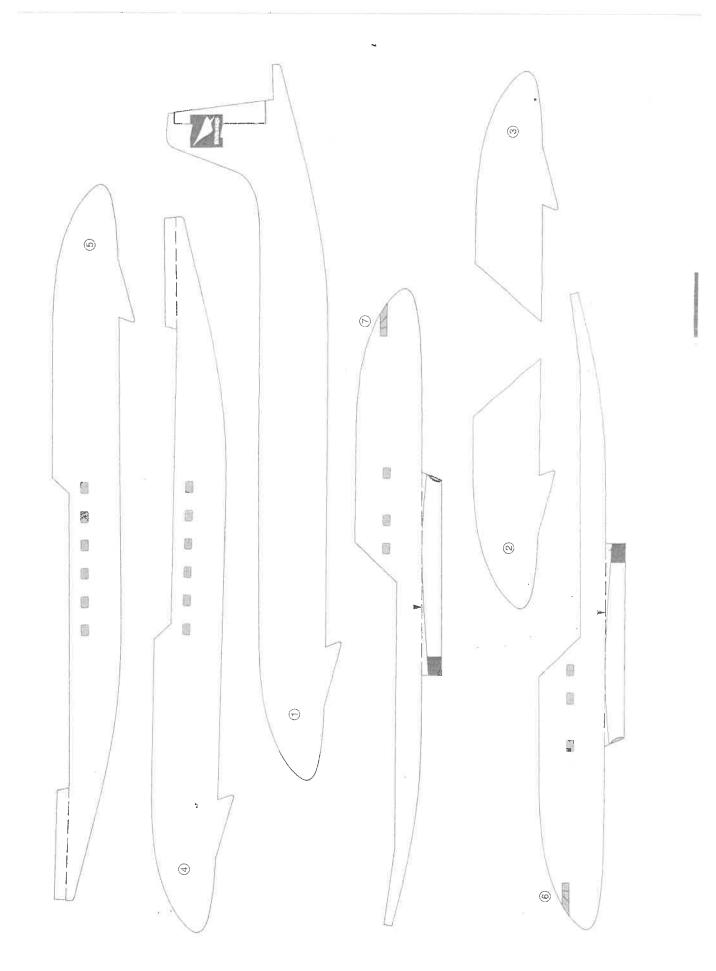
In the same manner as in 4-5, attach (1) + (3) to the other side of (6).

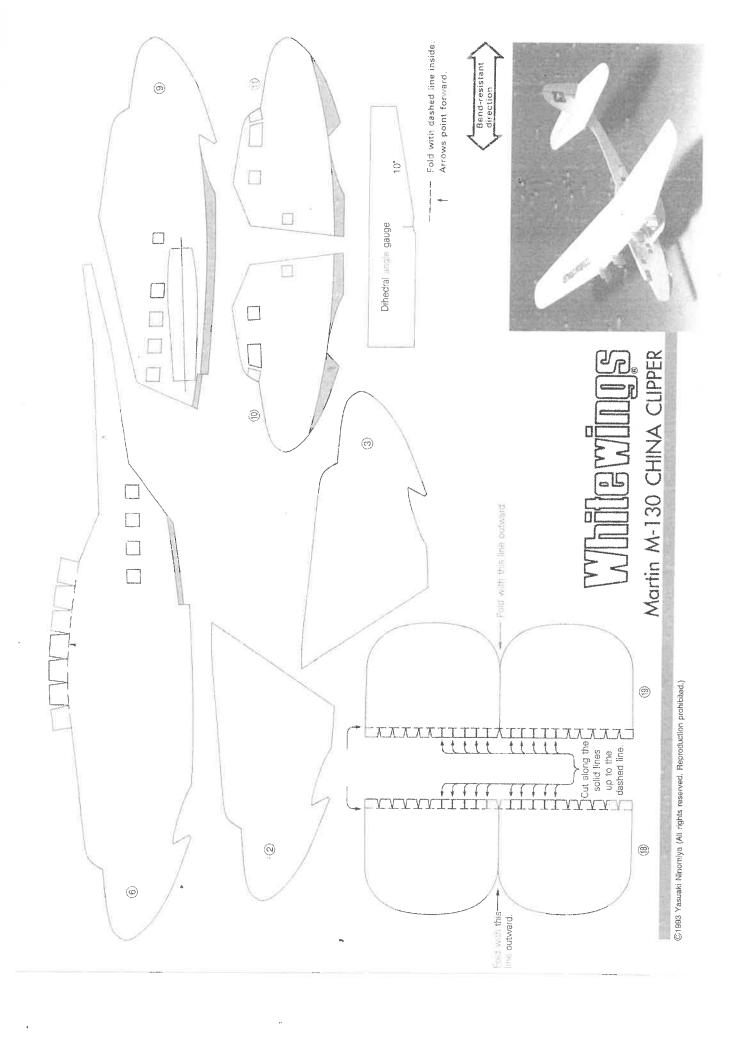
Using a ruler along the center line, fold part (§) from the center line to make 5° angle on

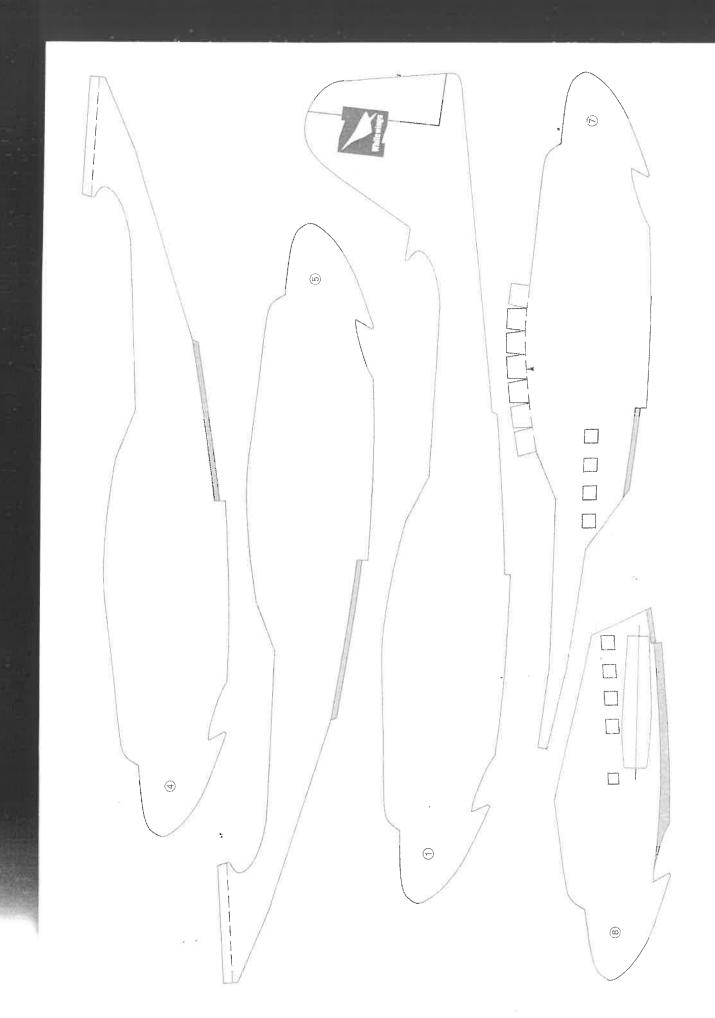


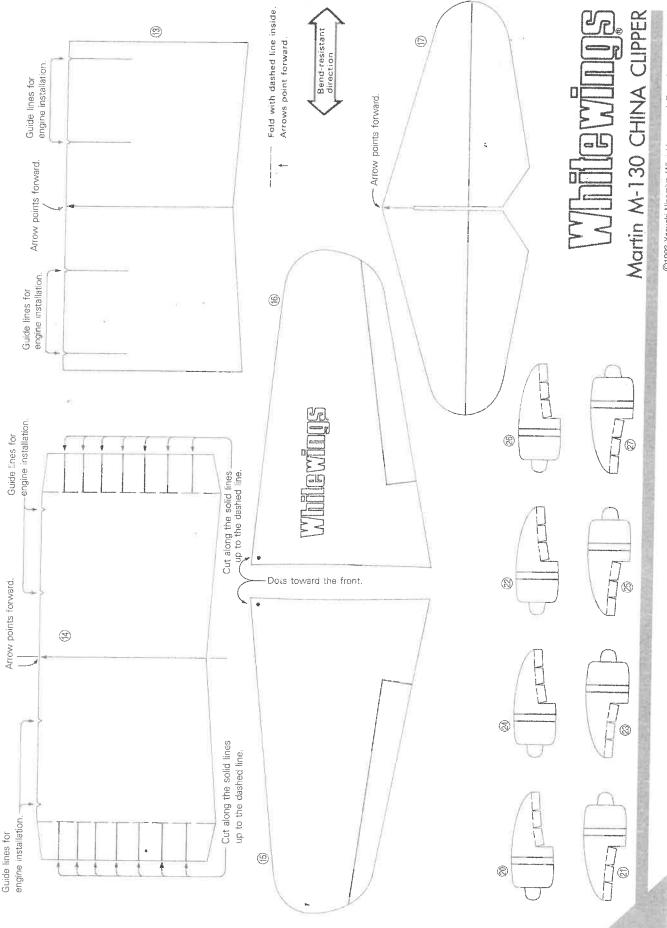


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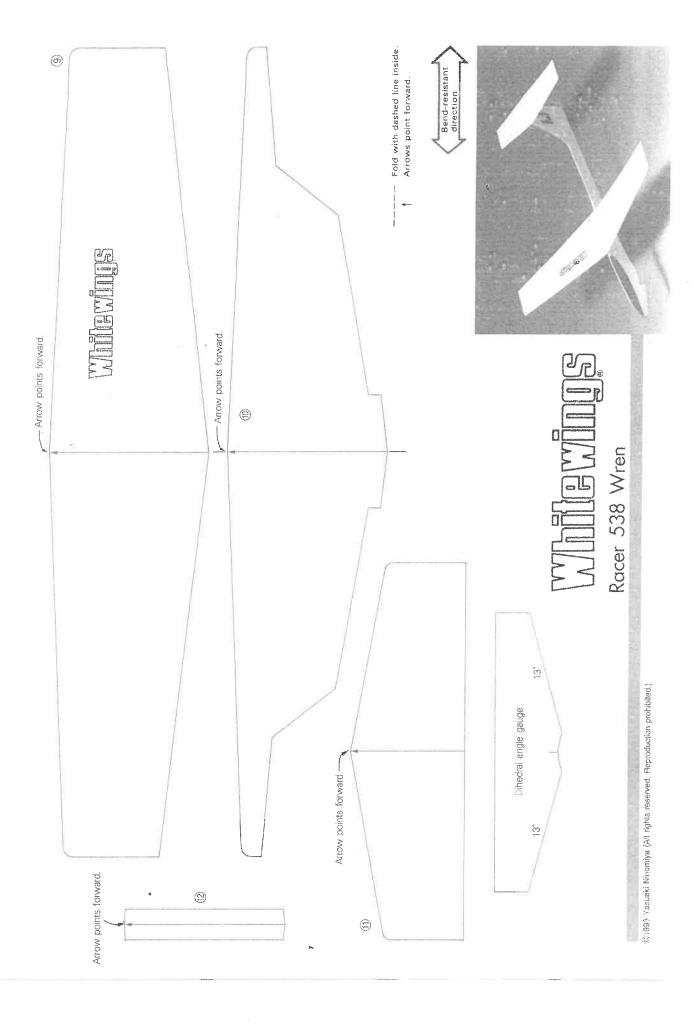


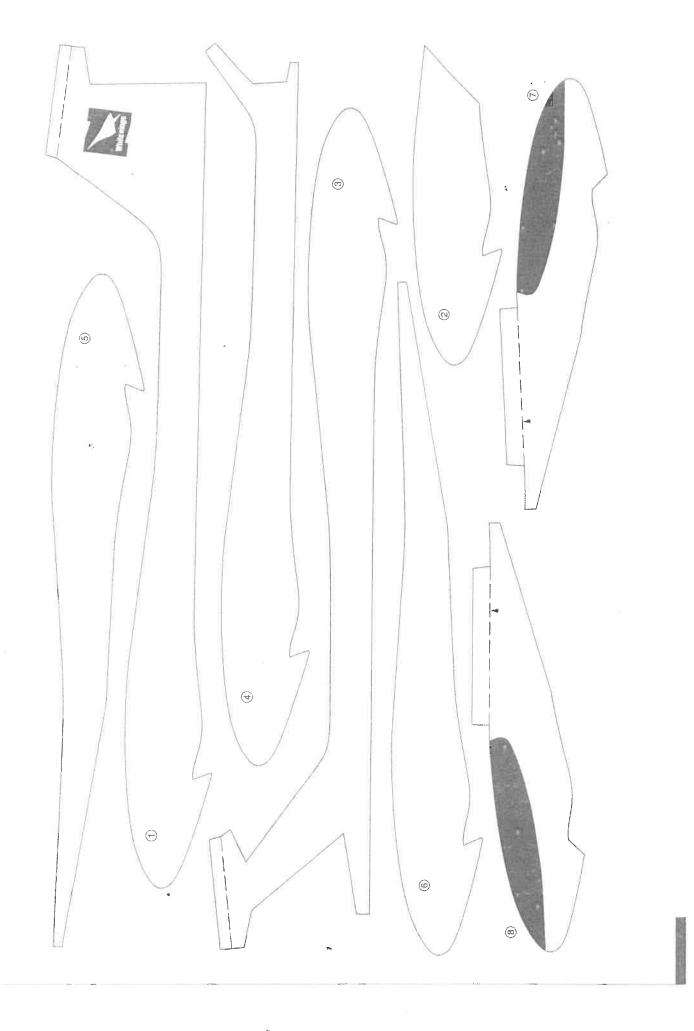


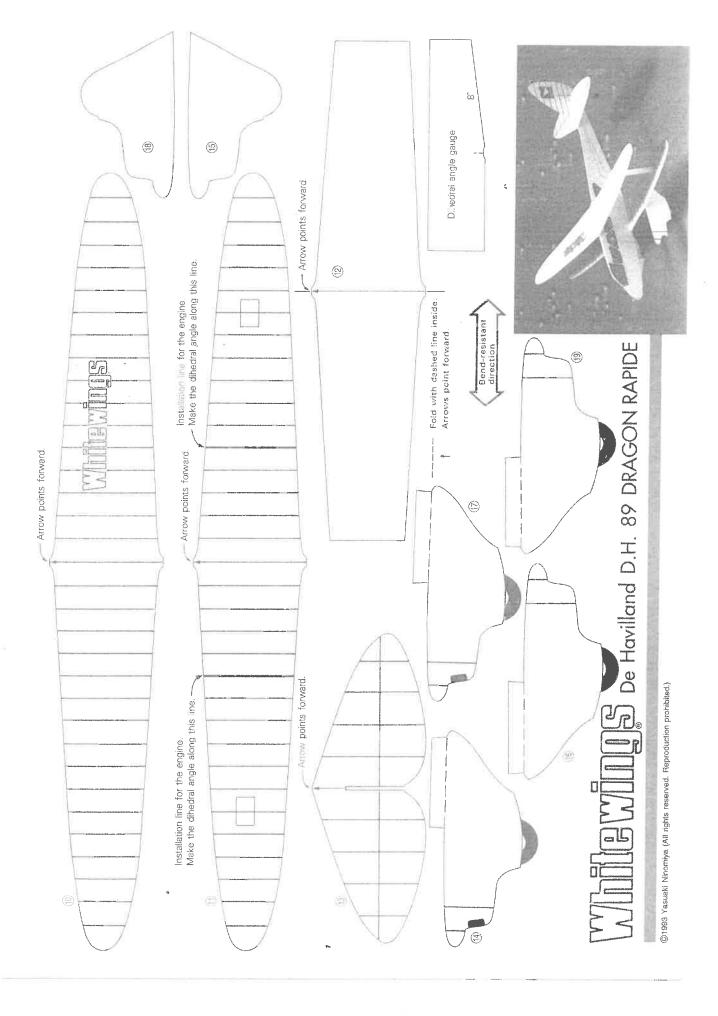


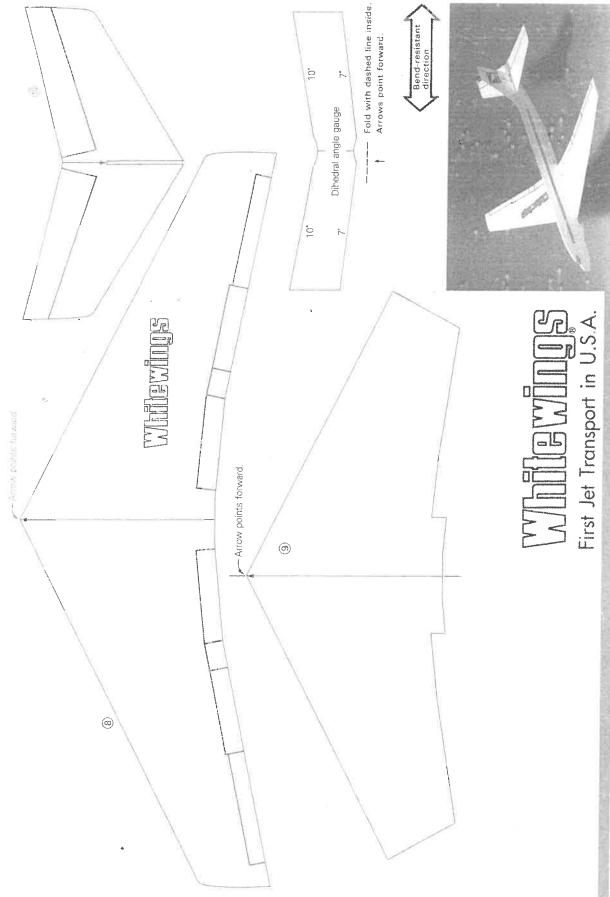


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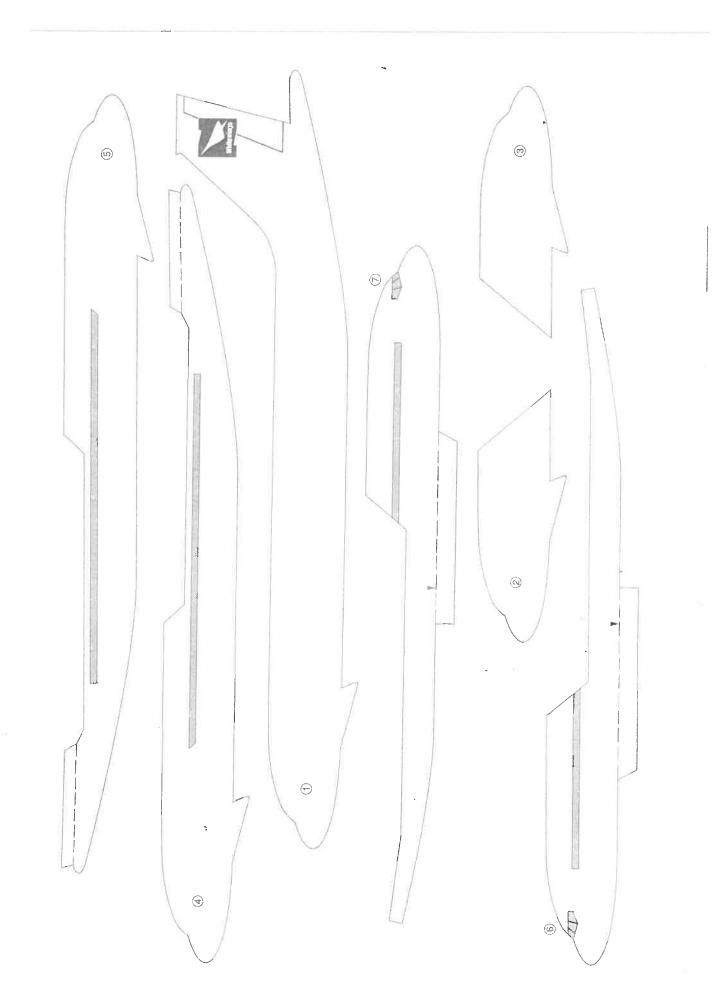




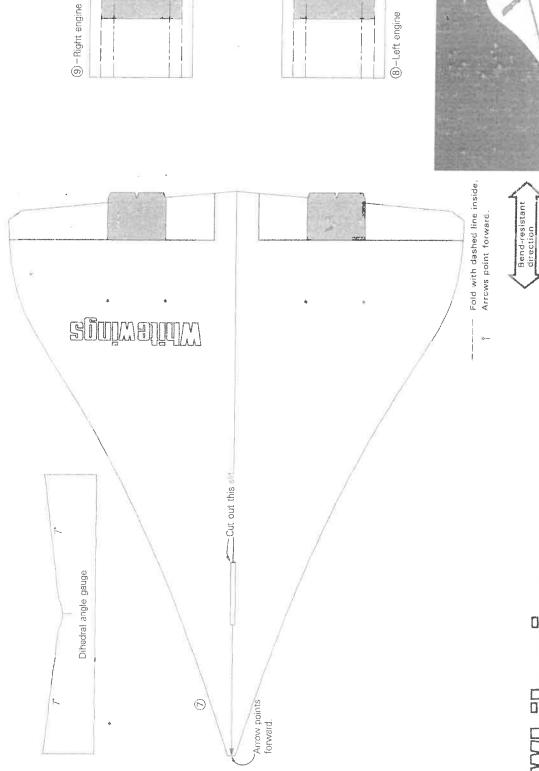




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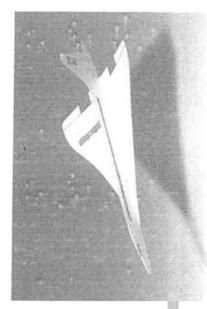


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- Fold outward.

Fold inward.

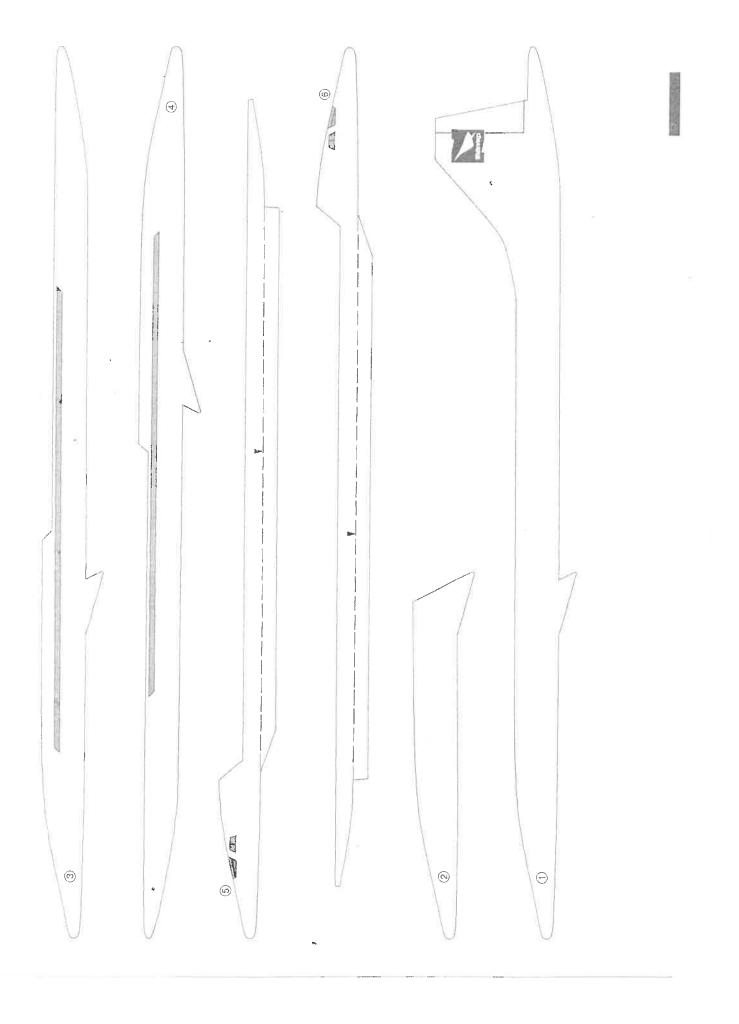


-Fold outward.

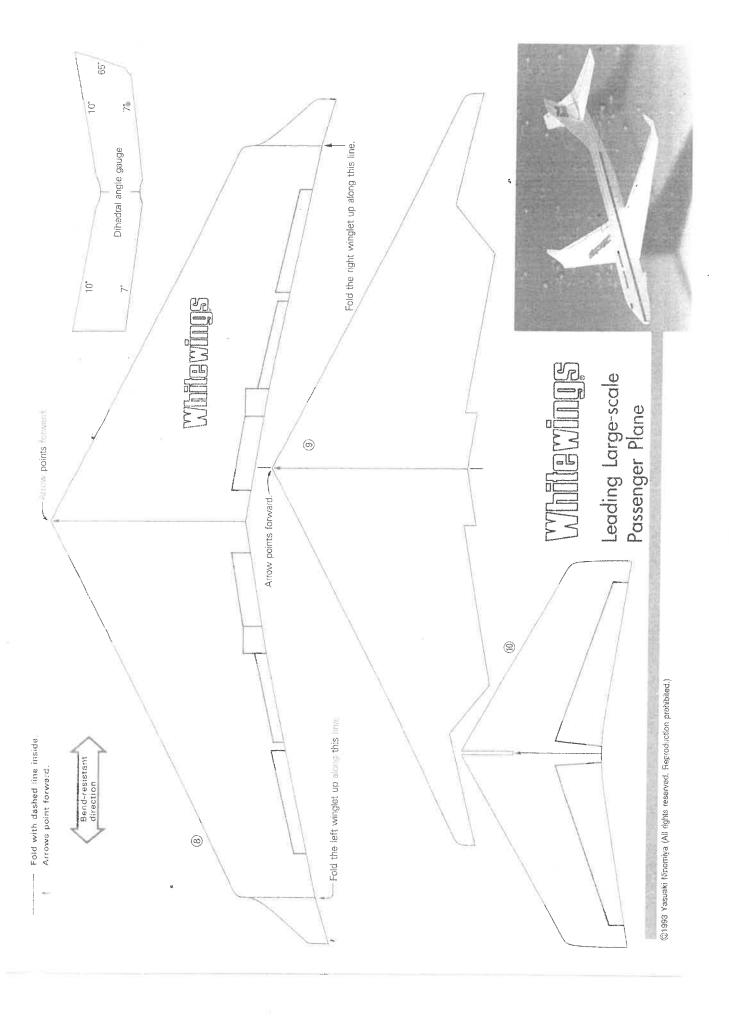
-Fold inward.

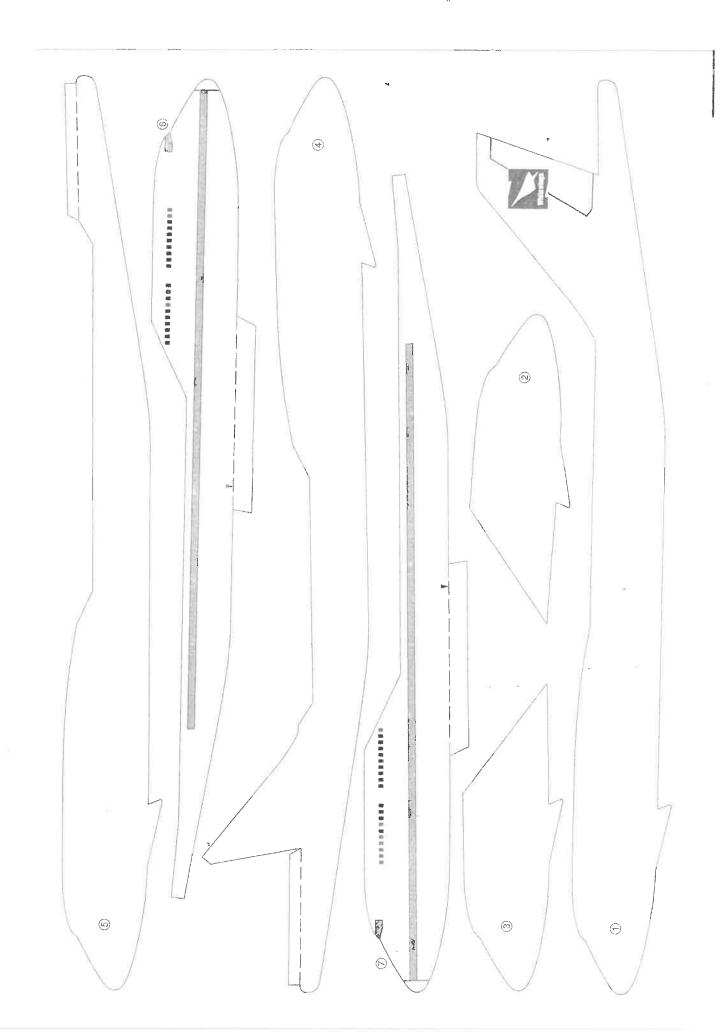
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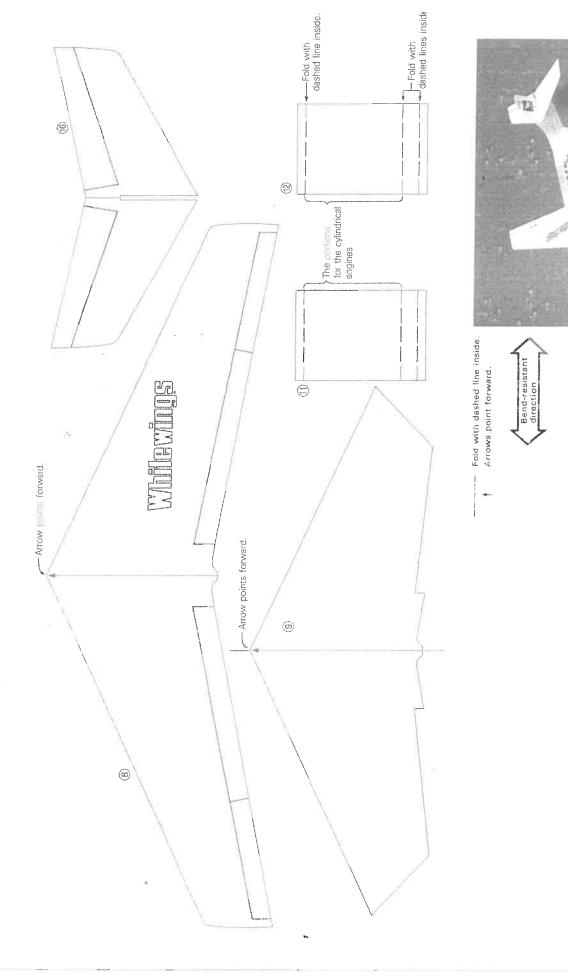
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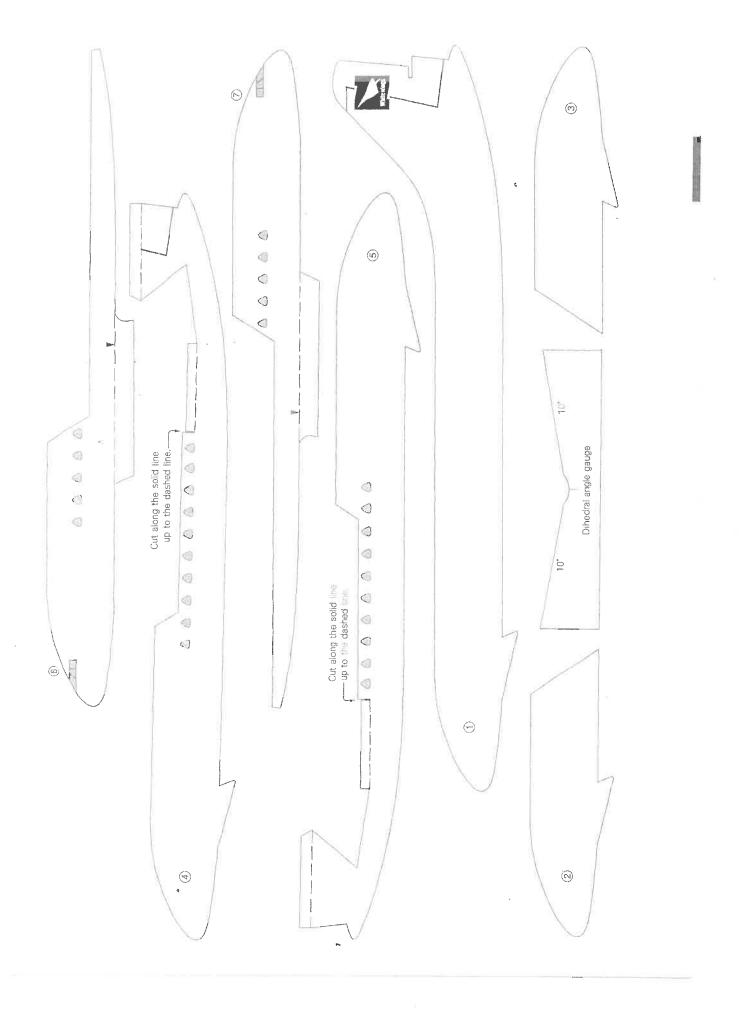






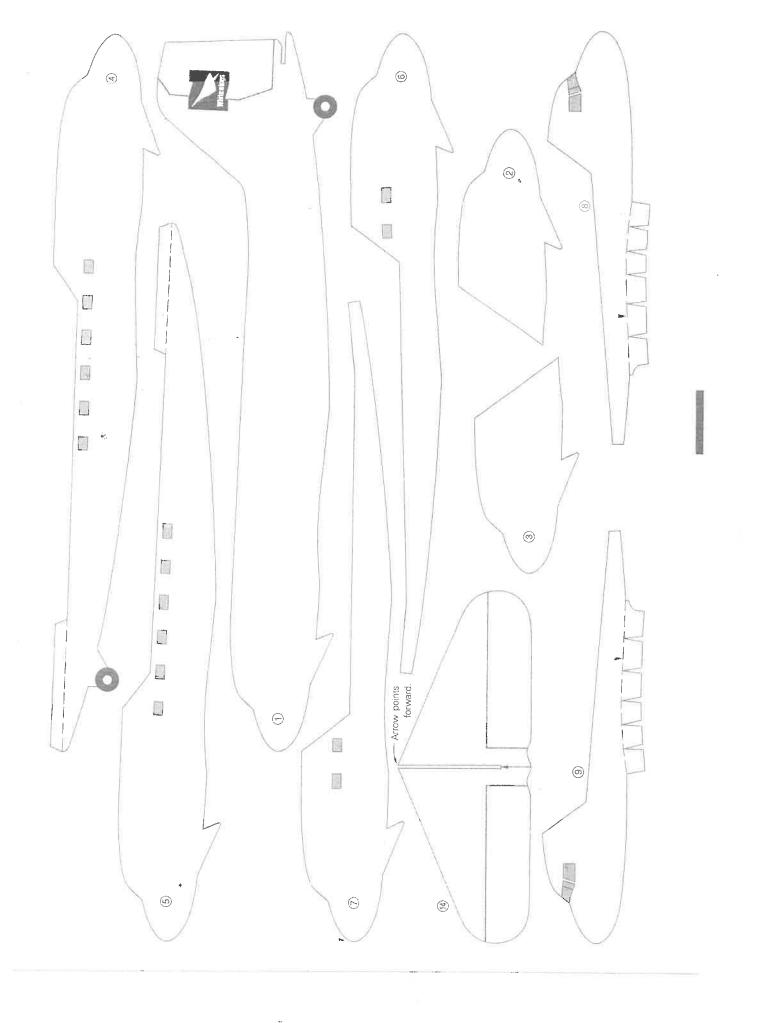


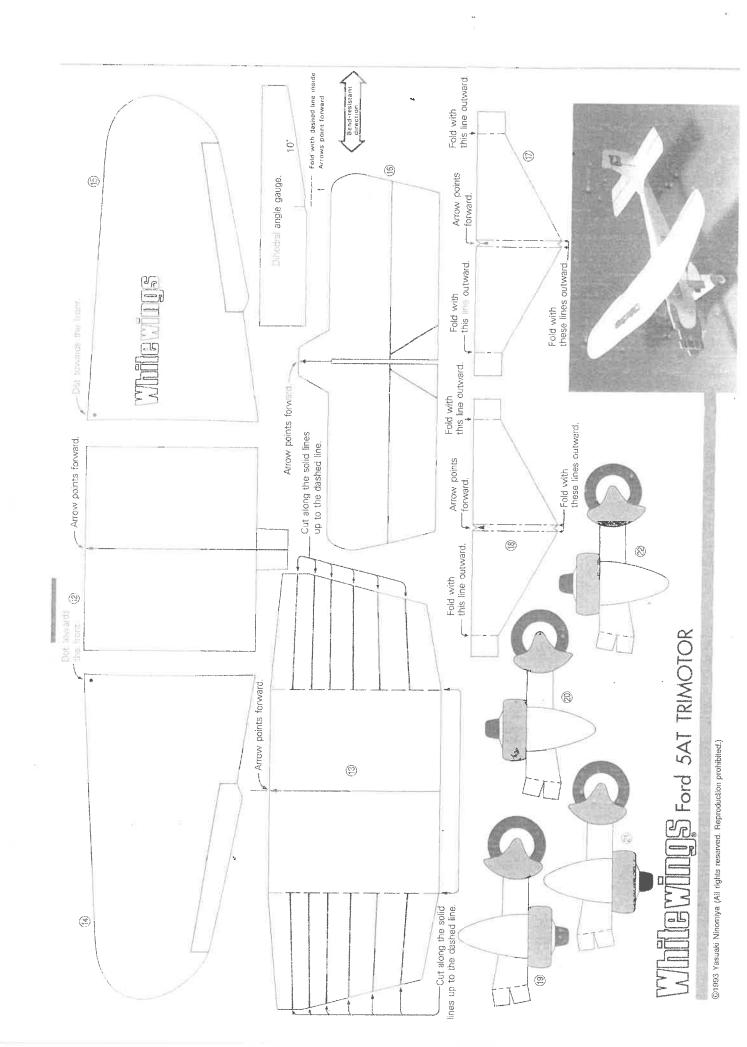
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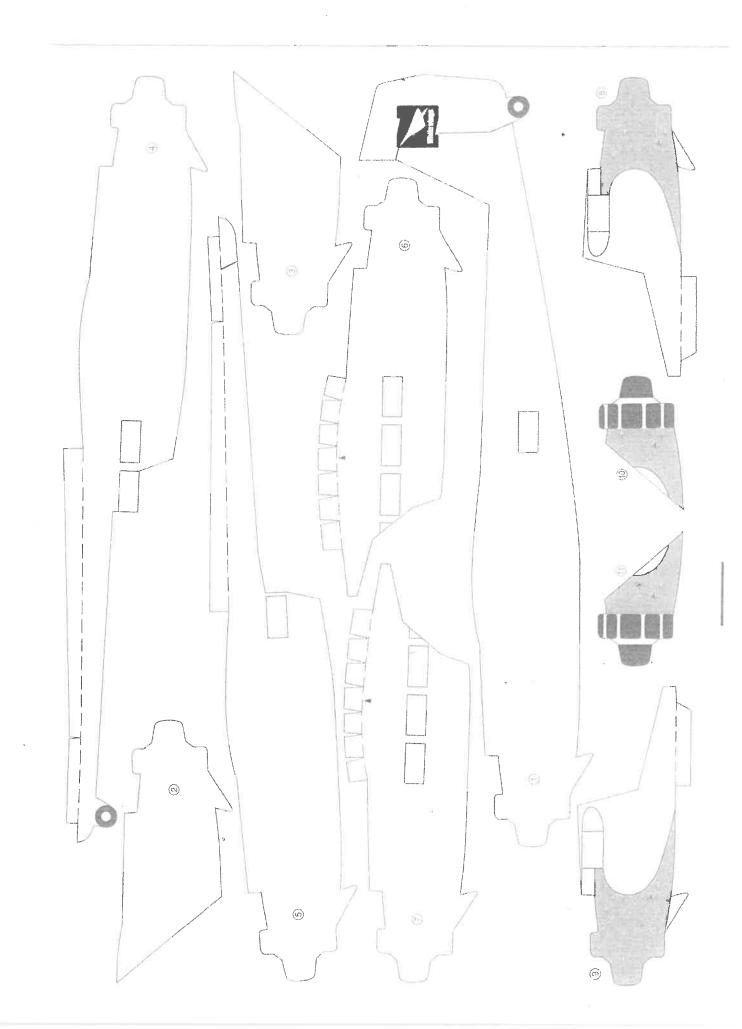


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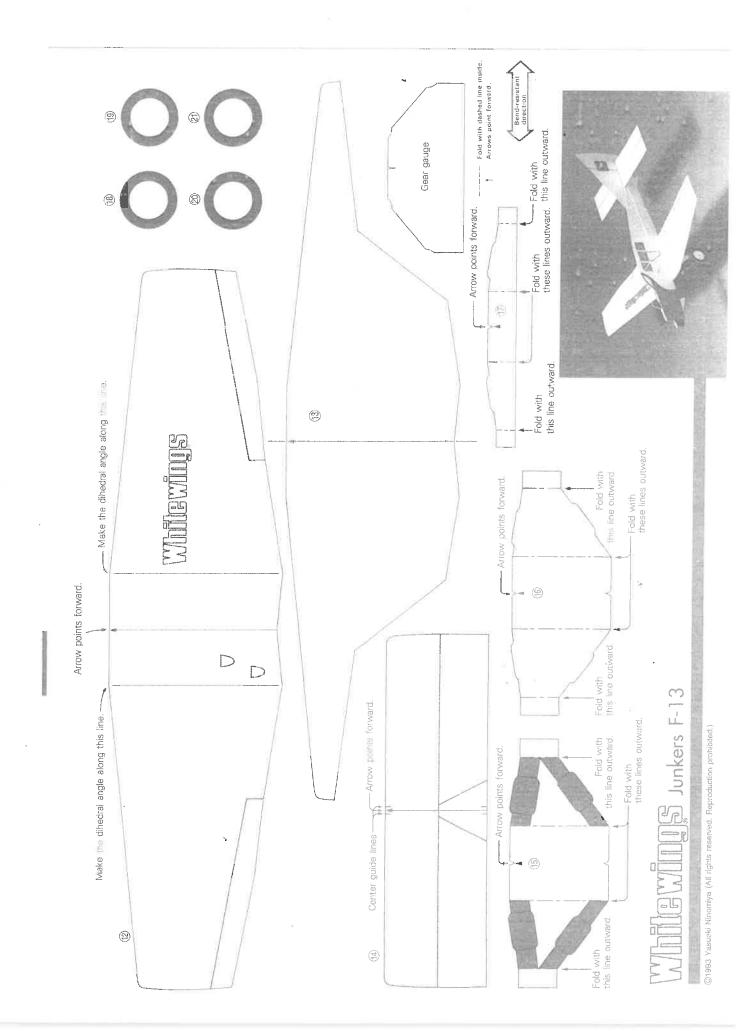
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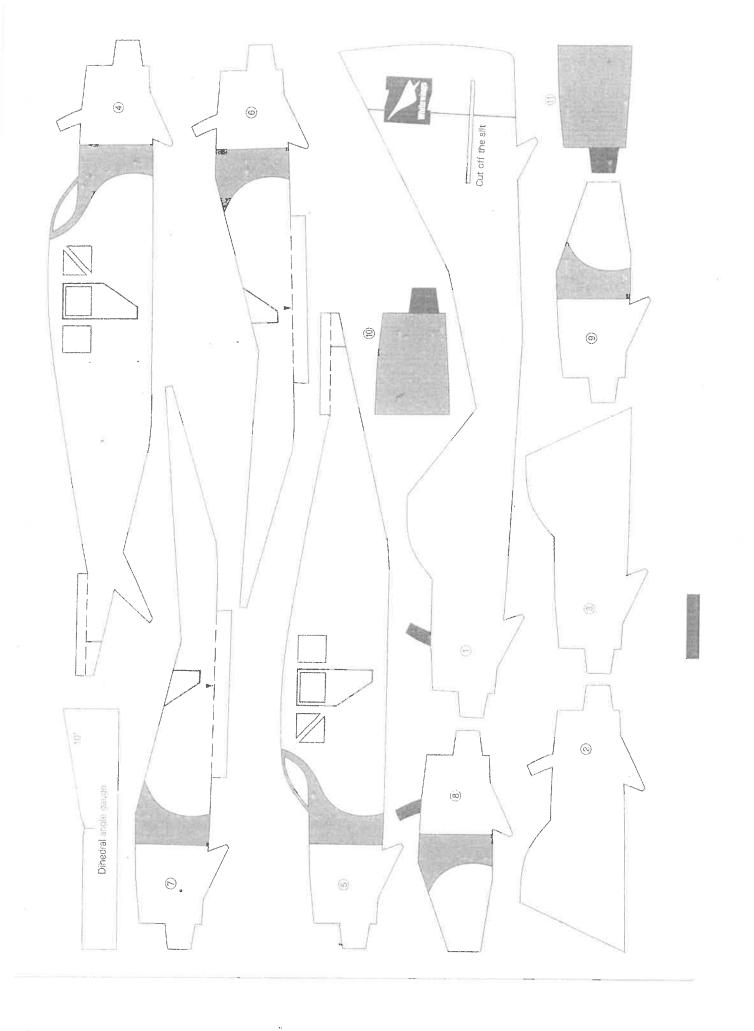


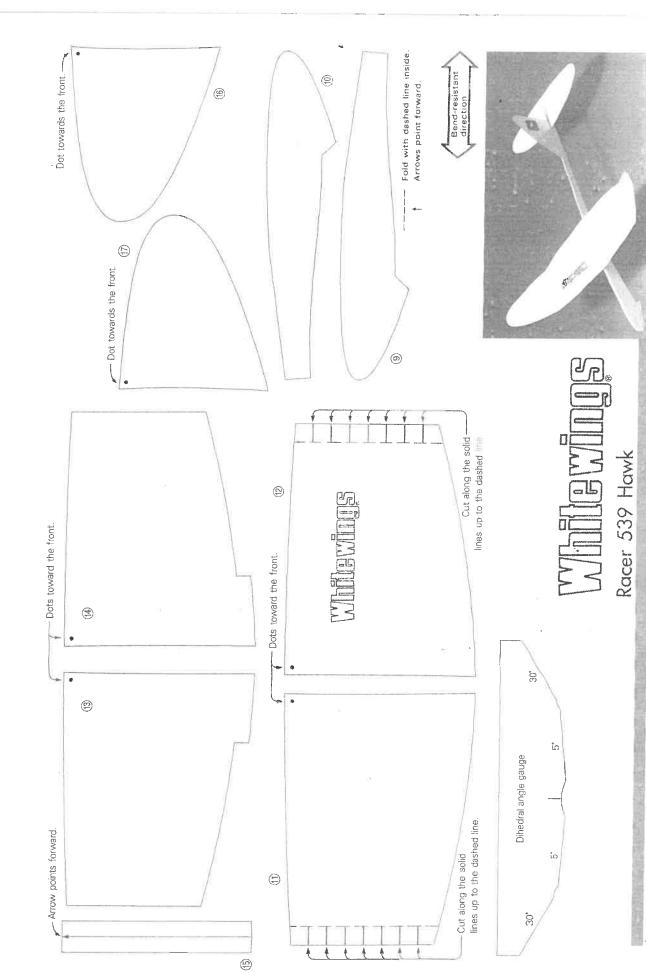




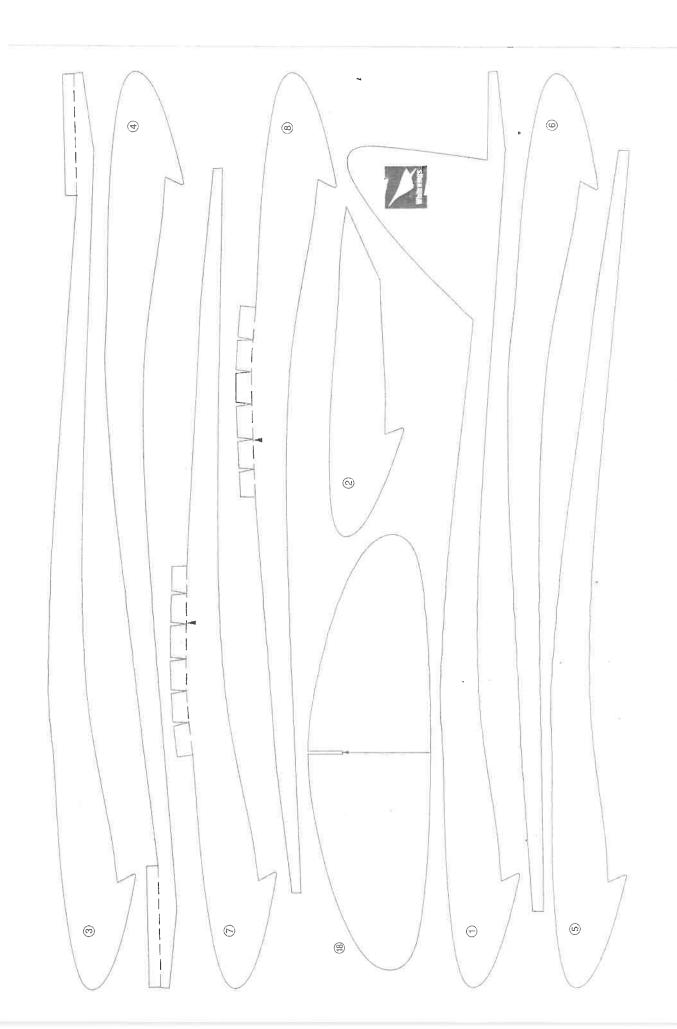
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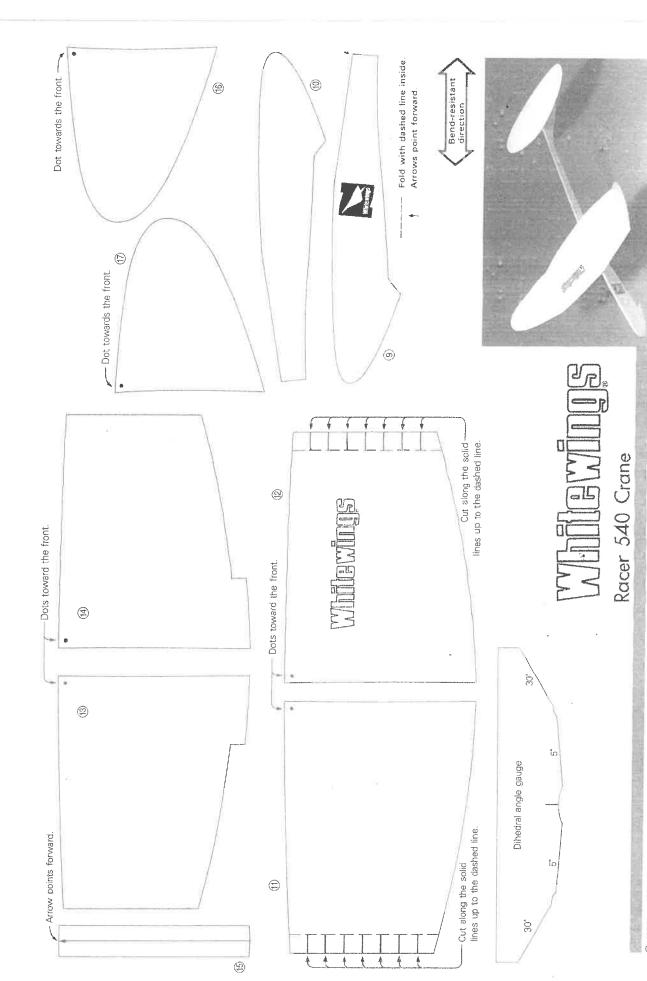




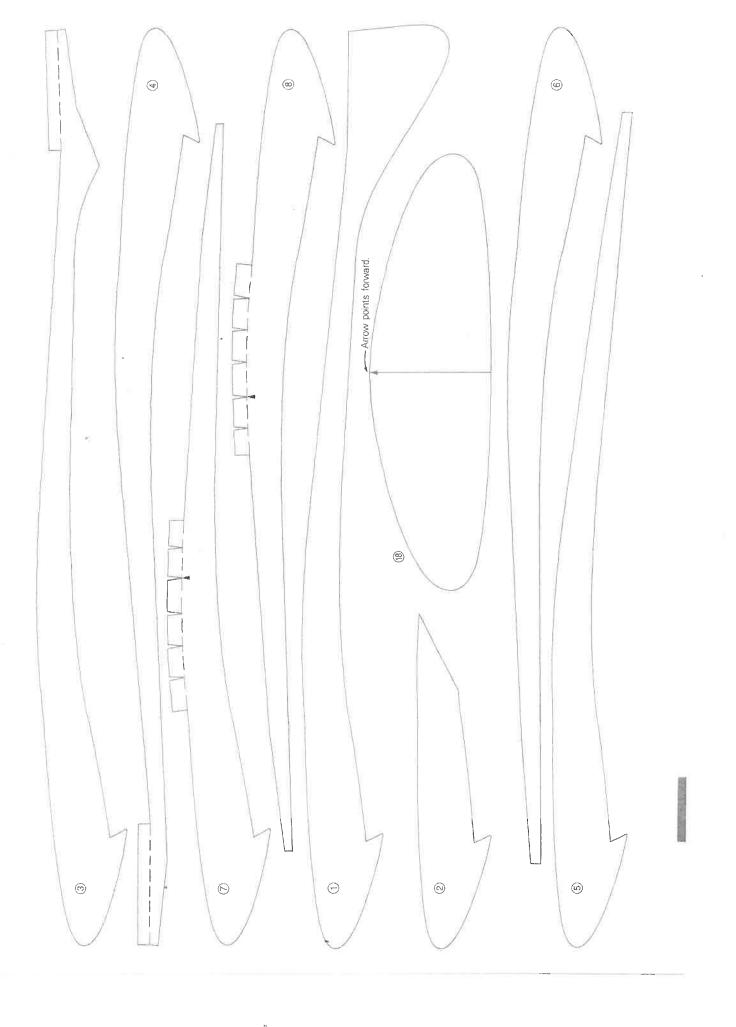
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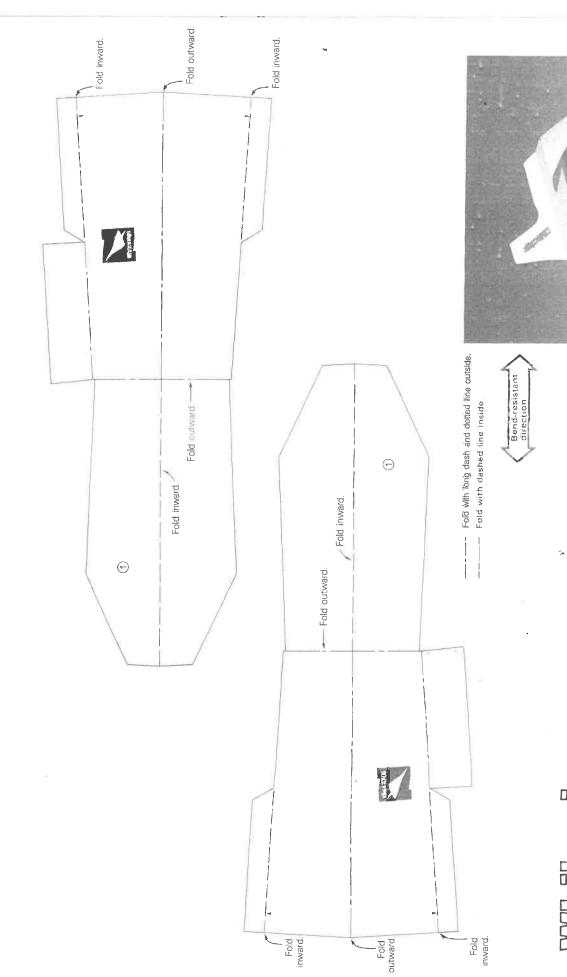


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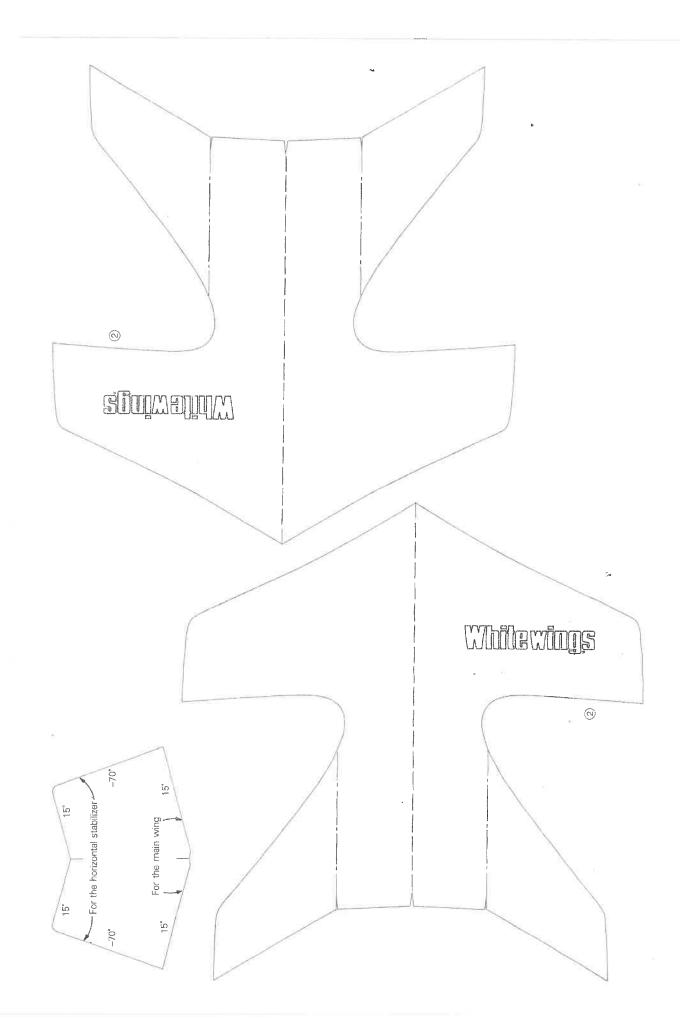
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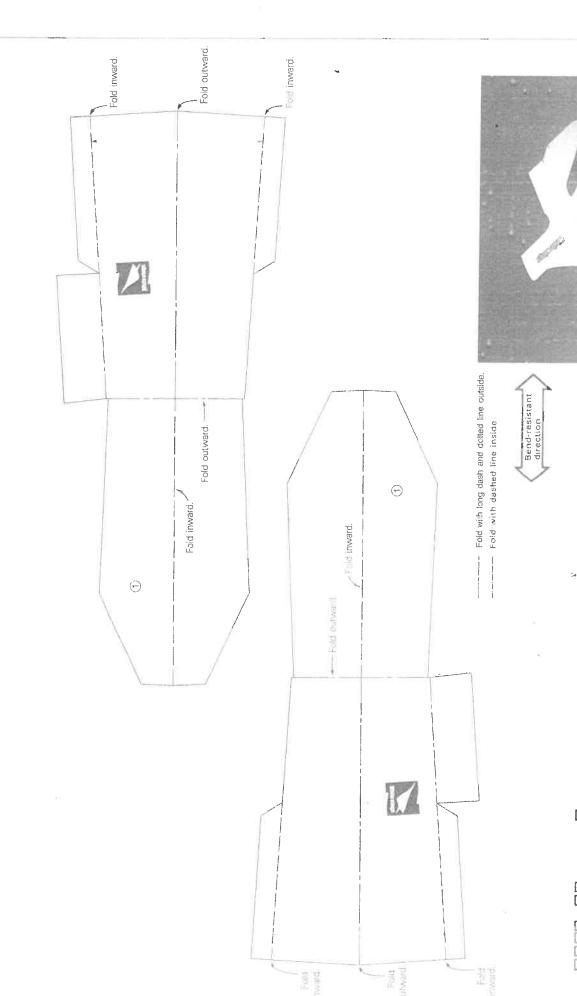


WILLEWILLS Simple Plane

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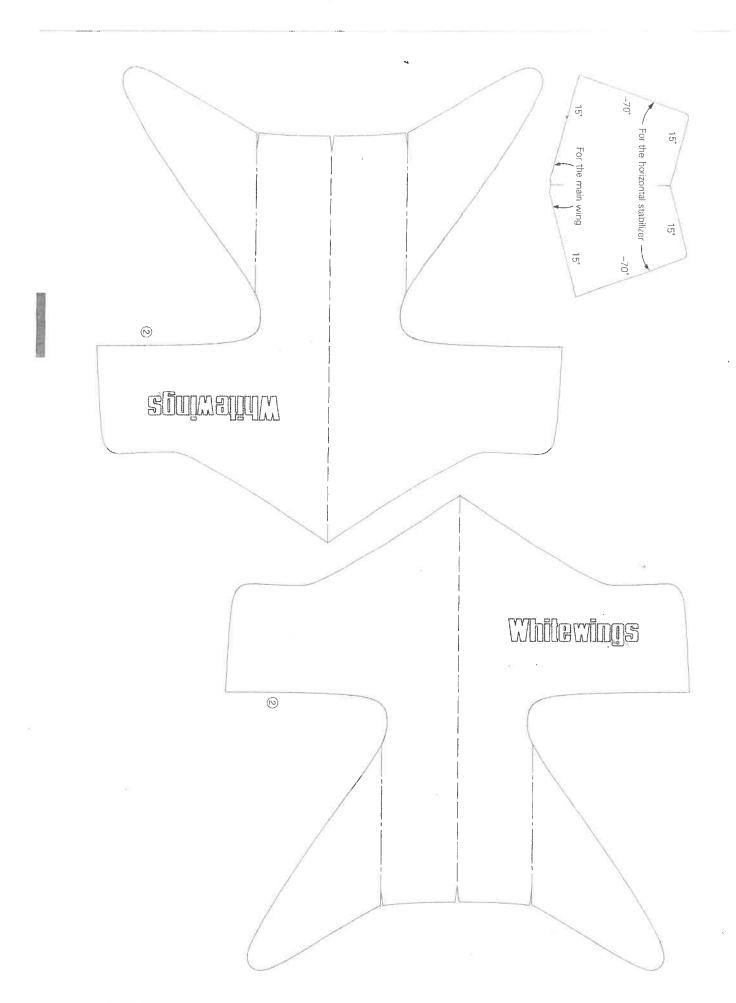


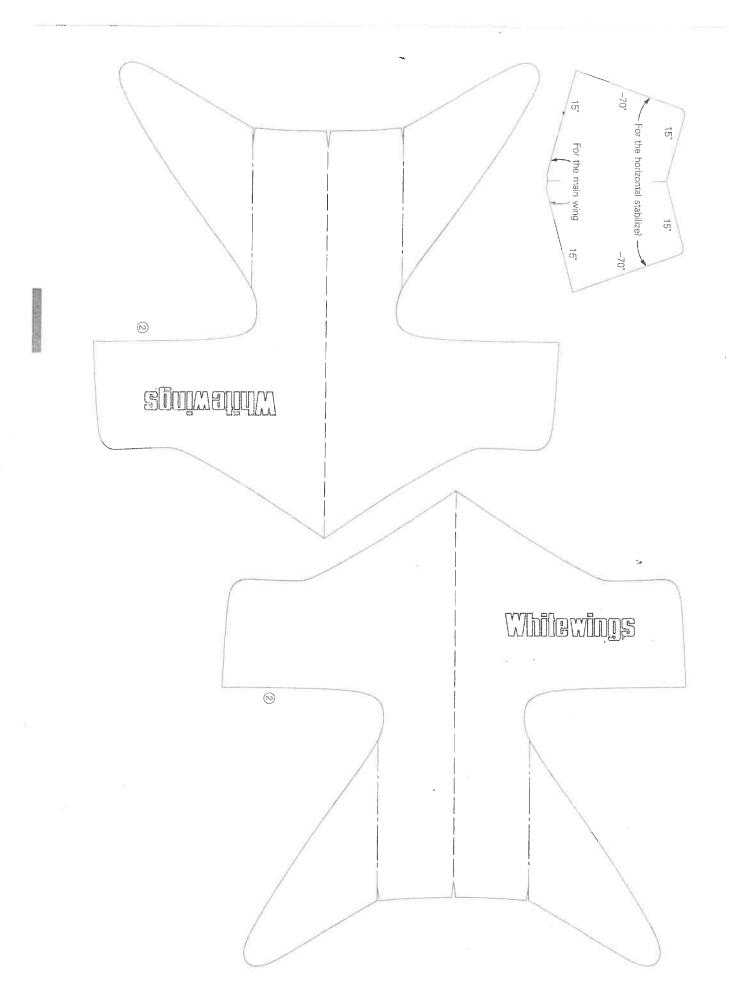
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